

CLAIMS:

1. A method comprising:

2 evaluating a load mismatch criterion relative to a wireless transmitter; and
4 configuring a power amplifier associated with the wireless transmitter as a
function of the load mismatch criterion.

2. The method of claim 1, further comprising:

2 detecting a transmitted power signal and a reflected power signal; and
4 calculating the load mismatch criterion as a function of the transmitted and
reflected power signals.

3. The method of claim 2, further comprising separating a power signal into

2 the transmitted power signal and the reflected power signal.

4. The method of claim 1, wherein configuring the power amplifier

2 comprises configuring a gain of the power amplifier.

5. A method comprising:

2 receiving at least one of a transmitted power signal level and a reflected power
signal level from a power amplifier associated with a wireless transmitter; and
4 configuring a gain of the power amplifier as a function of the transmitted and
reflected power signal levels.

6. The method of claim 5, further comprising detecting at least one of a

2 transmitted power signal and a reflected power signal.

7. The method of claim 6, further comprising separating a power signal into

2 the transmitted power signal and the reflected power signal.

8. A processor readable medium containing processor executable instructions

2 for:

evaluating a load mismatch criterion relative to a wireless transmitter; and

4 configuring a power amplifier associated with the wireless transmitter as a
function of the load mismatch criterion.

9. The processor readable medium of claim 8, containing further processor

2 executable instructions for:

4 receiving a transmitted power signal level and a reflected power signal level;

6 and

calculating the load mismatch criterion as a function of the transmitted and

8 reflected power signals.

10. The processor readable medium of claim 8, containing further processor

2 executable instructions for configuring a gain of the power amplifier.

11. A processor readable medium containing processor executable instructions

2 for:

4 receiving at least one of a transmitted power signal level and a reflected power

6 signal level from a power amplifier associated with a wireless transmitter; and

configuring a gain of the power amplifier as a function of the transmitted and

8 reflected power signal levels.

12. A wireless communication device comprising:

2 a wireless transmitter;

4 a power amplifier to output a signal from the wireless transmitter; and

6 a controller to configure the power amplifier as a function of a load mismatch
criterion determined from the signal.

13. The wireless communication device of claim 12, wherein the controller

2 configures a gain of the power amplifier as a function of the load mismatch criterion.

14. The wireless communication device of claim 12, wherein the controller is
2 configured to calculate the load mismatch criterion as a function of a transmitted power
signal level and a reflected power signal level determined from the signal.

15. The wireless communication device of claim 12, further comprising a
2 dual-directional coupler to separate the signal into a transmitted power signal component
and a reflected power signal component.

16. The wireless communication device of claim 15, further comprising:
2 a first power detector coupled to receive the transmitted power signal
component and configured to generate a transmitted power signal level; and
4 a second power detector coupled to receive the reflected power signal
component and configured to generate a reflected power signal level.

17. The wireless communication device of claim 16, wherein at least one of
2 the first and second power detectors comprises a broadband power detector.

18. The wireless communication device of claim 16, wherein the controller is
2 configured to receive the transmitted and reflected power signal levels.

19. An integrated circuit comprising:
2 a power amplifier to output a signal from a wireless transmitter; and
4 a controller to configure the power amplifier as a function of a load mismatch
criterion determined from the signal.

20. The integrated circuit of claim 19, wherein the controller configures a gain
2 of the power amplifier as a function of the load mismatch criterion.

21. The integrated circuit of claim 19, wherein the controller is configured to
2 calculate the load mismatch criterion as a function of a transmitted power signal level and
a reflected power signal level determined from the signal.

22. The integrated circuit of claim 19, further comprising a dual-directional
2 coupler to separate the signal into a transmitted power signal component and a reflected
power signal component.

23. The integrated circuit of claim 22, further comprising:
2 a first power detector coupled to receive the transmitted power signal
component and configured to generate a transmitted power signal level; and
4 a second power detector coupled to receive the reflected power signal
component and configured to generate a reflected power signal level.

24. The integrated circuit of claim 23, wherein at least one of the first and
2 second power detectors comprises a broadband power detector.

25. The integrated circuit of claim 23, wherein the controller is configured to
2 receive the transmitted and reflected power signal levels.

26. An apparatus comprising:
2 a power amplifier;
4 a dual-directional coupler to separate a power signal into a transmitted power
signal component and a reflected power signal component;
6 a first power detector to generate a transmitted power signal level;
8 a second power detector to generate a reflected power signal level; and
a control arrangement to configure the power amplifier as a function of the
transmitted and reflected power signal levels.

27. An apparatus comprising:
2 a power amplifier;
4 a directional coupler to extract a reflected power signal component from a
power signal;
a reverse power detector to generate a reflected power signal level; and

6 a control arrangement to configure the power amplifier as a function of the reflected power signal level.

28. An apparatus comprising:

2 a wireless transmitter;

4 a power amplifier to output a signal from the wireless transmitter; and

6 a controller configured to

evaluate a load mismatch criterion relative to the wireless transmitter, and

configure the power amplifier as a function of the load mismatch criterion.

29. The apparatus of claim 28, wherein the controller is further configured to:

2 detect a transmitted power signal and a reflected power signal; and

4 calculate the load mismatch criterion as a function of the transmitted and

reflected power signals.

30. An apparatus comprising:

2 means for evaluating a load mismatch criterion relative to a wireless transmitter;

4 and

means for configuring a power amplifier associated with the wireless transmitter as a function of the load mismatch criterion.

31. The apparatus of claim 30, further comprising:

2 means for detecting a transmitted power signal emitted by an antenna associated

with the wireless transmitter and a reflected power signal reflected by the antenna toward

4 the power amplifier; and

means for calculating the load mismatch criterion as a function of the

6 transmitted and reflected power signals.

32. The apparatus of claim 31, further comprising means for separating a

2 power signal into the transmitted power signal and the reflected power signal.

33. The apparatus of claim 30, further comprising means for configuring a
2 gain of the power amplifier.

34. An apparatus comprising:
2 means for receiving at least one of a transmitted power signal level and a
reflected power signal level from a power amplifier associated with a wireless
4 transmitter; and
means for configuring a gain of the power amplifier as a function of the
6 transmitted and reflected power signal levels.

35. The apparatus of claim 34, further comprising means for detecting at least
2 one of a transmitted power signal and a reflected power signal.

36. The apparatus of claim 35, further comprising means for separating a
2 power signal into the transmitted power signal and the reflected power signal.